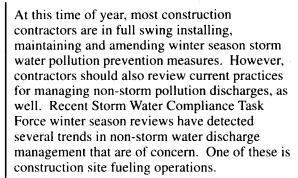


Construction Storm Water Pollution Prevention Bulletin

Volume 2/Issue No. 1 January 1, 1998

The Storm Water
Pollution Prevention
Bulletin is prepared
by the Storm Water
Compliance Review
Task Force to aid all
projects and operations in maintaining
compliance with the
National Pollutant
Discharge Elimination System (NPDES)
permit requirements.

Construction Now Storm Water Pollution Prevention



CONSTRUCTION SITE FUELING OPERATIONS

A recurring concern is the management of nonstorm water discharges associated with vehicle and equipment fueling operations (CD 19). Given the amount of fueling that occurs on a typical construction site, it is easy to understand the potential for pollution these operations present if not conducted using established Best Management Practices appropriate for the site.

Of particular concern is the inappropriate selection or poor construction of secondary containment systems. Many construction contractors have elected to meet compliance requirements by using plastic sheeting and sandbags for the secondary containment system. While this practice meets the current minimum installation requirement, it is not

appropriate for use on



Example of unacceptable fuel tank installation. No secondary containment or fueling pad

projects lasting longer than a few months. The constant maintenance required and the inability of plastic sheeting to contain fuels sufficiently make this an unacceptable solution for projects of extended duration. In fact, some plastic sheeting appears to dissolve when exposed to gasoline.

Keys points to follow when implementing fueling operations using plastic sheeting for secondary containment:

- The facility must be inspected weekly and the results reviewed for practicality.
- The sheeting must be able to withstand fuels.
 It should also be seamless to prevent leaks, overlapping of the plastic is insufficient.

- If the system consistently requires maintenance due to rips or deterioration from weather, it will be necessary to upgrade the containment system.
- Optimally, secondary containment systems should last the duration of the project with only minimal maintenance. Concrete pads with wood covers are becoming common on projects expected to last a year or longer. For shorter projects, offsite fueling may be easier to manage and is preferred from a pollution prevention standpoint.

Mobile fueling operations present other challenges to the contractor. Drip pans or drop cloths are required during fueling to catch spills or leaks. The most difficult obstacle is providing a contained parking stall for the fueling vehicle. If a paved surface can be used, sandbags filled with a commercial absorbent should be placed around the perimeter to contain inadvertent leaks and spills. The absorbent should be spread freely around the stall to fill any gaps. Used material must be disposed as hazardous waste after a spill. For dirt stalls, plastic sheeting can be used under the dirt as a barrier.



Protected parking for mobile fuel vehicle. Note plastic sheeting under dirt.

Holmes & Narver
VALI COUPER & ASSOCIATES, INC

Construction

Site Fueling

Operations

Additional information is available in the Caltrans Storm Water Quality Handbooks. Questions or comments may be directed to:

Ken Keaton • Caltrans HQ Environmental Engineering • (916) 653-4947

Melinda McCoy Consultant Team • (714) 567-2588